



### NETWORK CONNECTION PINOUT

Pin	Name	Description
1	R1 RXDATA	Receive data from the Network - Ring
2	T1 RXDATA	Receive data from the Network - Tip
3, 6, 7, 8	UNUSED	n/a
4	R TXDATA	Transmit data towards the Network - Ring
5	T TXDATA	Transmit data towards the Network - Tip

### CPE CONNECTION PINOUT

Pin	Name	Description
1	R TXDATA	Transmit data towards the Network - Ring
2	T TXDATA	Transmit data towards the Network - Tip
3, 6, 7, 8	UNUSED	n/a
4	R1 RXDATA	Receive data from the Network - Ring
5	T1 RXDATA	Receive data from the Network - Tip

### INSTALLATION INFORMATION

- An eight-position modular jack (labeled **NETWORK**) is provided to connect to the network T1 circuit. The pinout is provided on this Quick Start Guide. See *Chapter 2, Installation*, of the TSU User Manual for more information. An eight-position modular jack (labeled **CPE**) is provided to connect to the customer equipment. The pinout is provided on this Quick Start Guide. See *Chapter 2, Installation*, of the TSU CSU ACE User Manual for more information.
- The rear panel contains LBO dip switches for both the Network and CPE interfaces. Detailed instructions on setting the switch positions are found on the back of this sheet.
- The TSU CSU ACE can be powered by either of the following methods:
  1. Use the included NEC Class 2, 12V at 400 mA wall mount power supply.
  2. Connect to a reliably grounded 12-48 Vdc source which is electrically isolated from the AC source. *Note: The branch circuit overcurrent protection shall be a fuse or circuit breaker rated 48V, minimum to 10A, maximum.*
- Additional information can be found on the product CD which contains the TSU User Manual, FAQs, Data Sheets, Applications, and White Papers.

**NETWORK LBO SWITCH POSITION SETTINGS**

Position 1	Position 2	Attenuation (dB)
On	On	0
On	Off	7.5
Off	On	15
Off	Off	22.5

**CPE LBO SWITCH POSITION SETTINGS**

Position 3	Position 4	Position 5	Cable Length (feet)
Off	Off	On	0-133
On	On	Off	134-265
Off	On	Off	266-399
On	Off	Off	400-533
Off	Off	Off	534-655

**TEST AND MONITOR ACCESS**

- Two monitor jacks are provided on the rear panel for bridging the received signals to allow in service circuit monitoring.
- Four break-and-test jacks are provided on the rear panel for use in out-of-service testing. These jacks bypass the connections of the modular jacks. **NET IN** and **NET OUT** are used to simulate the network input and output of the TSU CSU ACE. To test the CPE, a T1 Bit Error Rate Test (BERT) test set can be used to simulate the network. **Eq IN** and **Eq OUT** can be used to simulate the CPE with a BERT test set, allowing the network to be tested. The TSU CSU ACE on the other end of the circuit can be looped back to test only the network.